

Middle School Manufacturing Systems Courses

		Curriculum Code/Hours		
Subject Code	Course Title	VT	V3	VM
Manufacturing operations (R7)				
175003	Manufacturing Operations	120-280	60	30-90
175015	Pre-Engineering Technologies			30-90
990364	Career Connections (grade level 7-9 only)			30-60

Curriculum Code	Grades	CT Funded	Assessment	Counts toward Concentrator
VT	7-12	Yes	Required	Yes
V3	7-12	Yes	Not required	No
VM	7-10	Yes	Optional	No

- Career-Technical Middle School Courses require an approved CTE-26 and program of study.
- Middle School Courses must be aligned to an approved CTE-26 pathway at the High School/Joint Vocational School.
- Students enrolled in Career-Technical Middle School Courses (VT, VM) are eligible for participation in Career-technical Student Organizations (CTSO).
- Granting High School credit for Career-Technical Middle School Course high school courses is a local school district decision.
- VM Courses do not count towards four course minimum.
- All students enrolled in a correlated technical related class (V3 Curriculum Element option) must also be funded in an approved workforce development anchor class (VP or VT).

Manufacturing Operations

Subject Code: 175003

Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety.

Pre-Engineering Technologies

Subject Code: 175015

Students will acquire knowledge and skills in problem solving, teamwork and innovation. Students explore STEM careers as they participate in a project-based learning process, designed to challenge and engage the natural curiosity and imagination of middle school students. Teams design and test their ideas using modeling, automation, robotics, mechanical and computer control systems, while exploring energy and the environment.

Career Connections

Subject Code: 990364

This course shows students how classroom learning translates into marketable skills. Through hands-on learning and local business involvement, students will engage in career-related experiences to acquire basic skills in various career fields. This provides students with tangible experiences to begin career decision making. Teachers have the flexibility to select career fields related to Ohio's in-demand jobs represented in the community.